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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|------------------------|---------------------------------|------------------------|---------------------|------------------|
| 10/501,616 | 05/25/2005 | John Gordon Rushbrooke | 920602-97103 | 2226 |
| 23644 BARNES & TI | 7590 12/28/2006 HORNBURG LLP | EXAMINER | | |
| P.O. BOX 2786 | 5 | MIDKIFF, ANASTASIA | | |
| CHICAGO, IL 60690-2786 | | | ART UNIT | PAPER NUMBER |
| | | | 2882 | |
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| | | | MAIL DATE | DELIVERY MODE |
| | | | 12/28/2006 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

Advisory Action Before the Filing of an Appeal Brief

| Application No. | Applicant(s) | |
|-------------------|-------------------|--|
| 10/501,616 | RUSHBROOKE ET AL. | |
| Examiner | Art Unit | |
| Anastasia Midkiff | 2882 | |

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|---|---|---|---|--|--|--|
| The MAILING DATE of this communication appe | ars on the cover sheet with the c | orrespondence add | ress | | | |
| THE REPLY FILED 05 December 2006 FAILS TO PLACE THIS | APPLICATION IN CONDITION F | OR ALLOWANCE. | | | | |
| 1. The reply was filed after a final rejection, but prior to or on this application, applicant must timely file one of the follow places the application in condition for allowance; (2) a Not a Request for Continued Examination (RCE) in compliance time periods: | ving replies: (1) an amendment, aff tice of Appeal (with appeal fee) in o e with 37 CFR 1.114. The reply mo | idavit, or other evider compliance with 37 C | rce, which FR 41.31; or (3) | | | |
| a) The period for reply expiresmonths from the mailing b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire la Examiner Note: If box 1 is checked, check either box (a) or (TWO MONTHS OF THE FINAL REJECTION. See MPEP 70 | dvisory Action, or (2) the date set forth tter than SIX MONTHS from the mailing b). ONLY CHECK BOX (b) WHEN THE | g date of the final rejecti | on. | | | |
| Extensions of time may be obtained under 37 CFR 1.136(a). The date have been filed is the date for purposes of determining the period of ext under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the s set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL | ension and the corresponding amount hortened statutory period for reply orig than three months after the mailing da | of the fee. The approprinally set in the final Offi | ate extension fee ce action; or (2) as | | | |
| The Notice of Appeal was filed on A brief in comp filing the Notice of Appeal (37 CFR 41.37(a)), or any exter a Notice of Appeal has been filed, any reply must be filed | nsion thereof (37 CFR 41.37(e)), to | avoid dismissal of th | | | | |
| AMENDMENTS | | 91 4 15 - 15 - 45 1 15 | | | | |
| The proposed amendment(s) filed after a final rejection, I (a) ☐ They raise new issues that would require further con (b) ☐ They raise the issue of new matter (see NOTE below | nsideration and/or search (see NO w); | TE below); | | | | |
| (c) ☐ They are not deemed to place the application in bet appeal; and/or | ter form for appeal by materially re | ducing or simplifying | the issues for | | | |
| (d) They present additional claims without canceling a | corresponding number of finally rej | ected claims. | | | | |
| NOTE: <u>See Continuation Sheet</u> . (See 37 CFR 1.1) | * ** | | ٠ | | | |
| 4. The amendments are not in compliance with 37 CFR 1.12 | | mpliant Amendment | (PTOL-324). | | | |
| 5. Applicant's reply has overcome the following rejection(s): | | 4: | 4 | | | |
| Newly proposed or amended claim(s) would be all non-allowable claim(s). | owable if submitted in a separate, | timely filed amendme | ent canceling the | | | |
| 7. For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is provided that the status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: Claim(s) rejected: 67,68,73,76-83,86,87,92,93,96-98,102, | rided below or appended. | II be entered and an e | explanation of | | | |
| Claim(s) withdrawn from consideration: | | | | | | |
| AFFIDAVIT OR OTHER EVIDENCE | | | | | | |
| The affidavit or other evidence filed after a final action, bu because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e). | d sufficient reasons why the affiday | rit or other evidence is | s necessary and | | | |
| The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to o showing a good and sufficient reasons why it is necessary | vercome <u>all</u> rejections under appe | al and/or appellant fai | ls to provide a | | | |
| 10. The affidavit or other evidence is entered. An explanation | of the status of the claims after e | ntry is below or attach | ned. | | | |
| REQUEST FOR RECONSIDERATION/OTHER 11. ☑ The request for reconsideration has been considered bu See Continuation Sheet. | t does NOT place the application in | n condition for allowa | nce because: | | | |
| 12. Note the attached Information Disclosure Statement(s). | PTO/SB/08) Paper No(8) | | | | | |
| 13. ☐ Other: | and// | | | | | |
| (** | | ASM MIN. do | 6 | | | |
| EDWARD J. GLICK SUPERVISORY PATENT EXAMINER | | | | | | |

U.S. Patent and Trademark Office PTOL-303 (Rev. 08-06) Continuation of 3. NOTE: With respect to Claims 67, 68, 73, 76, 79-82, 86, 87, 92, 93, and 96, the added limitation of a "one-piece" scintillation crystal in Line 7 of Claim 67 and Line 2 of Claim 86 raises issues that will require further search and consideration. With respect to Claim 83, the added limitation in Lines 3-4 that the ouput signal from the two opposite saide faces are added raises issues that require furether search and consideration.

With respect to Claim 97, the added limitations added in Lines 4-8 raise issues that will require further search and consideration. With respect to Claim 111, the added limitations of x-ray energies grater than 1 MeV in Line 3 and energies of approximately 100 keV in Line 5 raise new issues that require further search and consideration.

Continuation of 11. does NOT place the application in condition for allowance because: With respect to Claim 107, the Applicant asserts that Newman does not teach moving a step wedge across an x-ray beam, as the step-wedge locations are exposed simultaneously. The examiner respectfully disagrees.

Newman is not relied upon for the incremental measurement method, which is taught by Neale, as cited in the previous action. Newman provides a step wedge to be used in the apparatus of Neale, wherein said step wedge provides the transmission increments as claimed in the present invention.